




daviteq IoT Solutions for Smart Transportation User Guide

[Home](#) » [daviteq](#) » daviteq IoT Solutions for Smart Transportation User Guide 



IoT Solutions for Smart Transportation

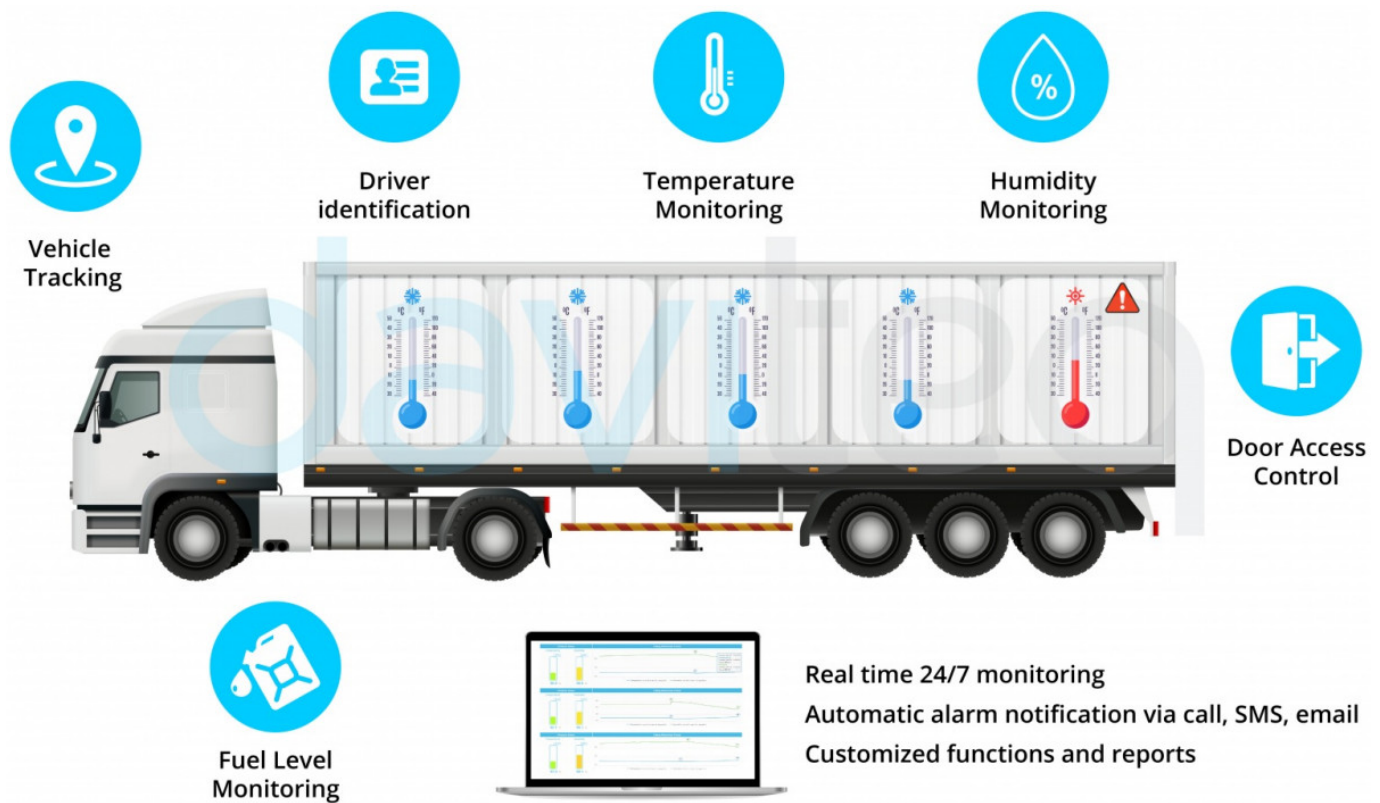
- smarTrans – Temperature Monitoring for Refrigerated Trucks

smarTrans – Temperature Monitoring for Refrigerated Trucks

Contents

- [1 smarTrans – Temperature Monitoring for Refrigerated Trucks](#)
- [2 Customer Challenges](#)
- [3 smarTrans solution from Daviteq](#)
- [4 Advantages of smarTrans solution](#)
- [5 Benefits of smarTrans](#)
- [6 Related products used in smarTrans solution](#)
- [7 Documents / Resources](#)
 - [7.1 References](#)

smarTrans – Temperature Monitoring for Refrigerated Trucks



Customer Challenges

Transporting special goods such as pharmaceuticals, vaccines or certain types of food requires strict temperature control during transportation. Solutions available on the market include:

A- GPS Black box with Cheap wired temperature sensor

This solution is economical, convenient and enables realtime monitoring. However encountered the following problems:

1. Using inexpensive sensor with low accuracy, poor reliability;
2. It is difficult to calibrate and certify by authority;
3. Only one temperature point measured, so the temperature of other areas in the compartment is not known;
4. Only measure 1 point of temperature, so when the sensor fails, there will be no other data to replace.

B- Battery operated Temperature Logger

This solution has the advantage of being able to monitor the temperature of multiple points in the storage compartment, by installing multiple temperature loggers into the cargo compartment. However, it also has the following weaknesses:

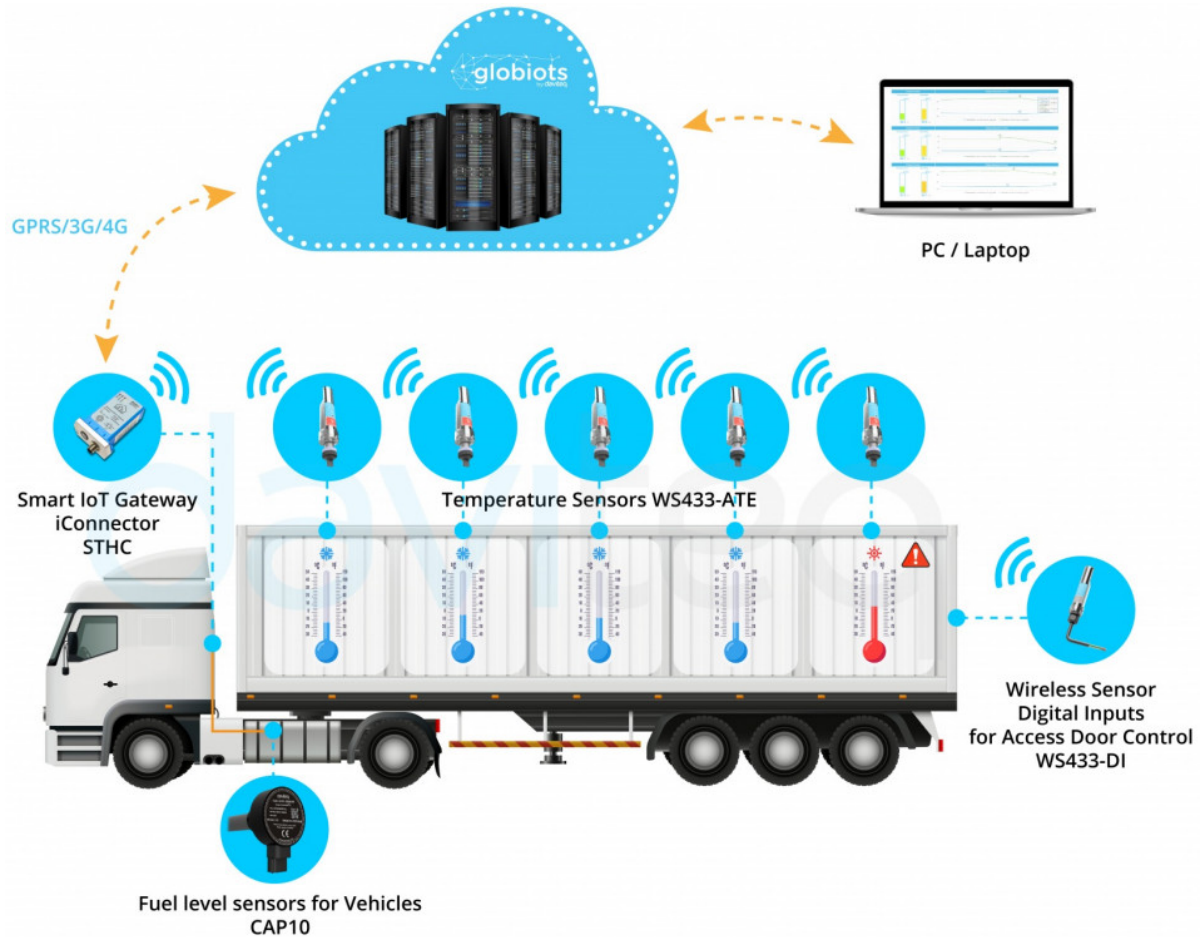
1. Only see the temperature data when the vehicle arrives;
2. Cannot see the current temperature value when the vehicle is in motion;
3. Failure to detect in time when the temperature is outside the permissible area while the vehicle is in motion;
4. Operation is complicated, because the device must be plugged into the computer with specialized software

smarTrans solution from Daviteq

Daviteq offers an optimal and economical solution to solve all the shortcomings of the two solutions above. That is,

on the vehicle will be equipped with the following equipment:

- Wireless temperature sensors, fully battery operated (10-20 years), installed in all parts of the cargo compartment;
- A wireless sensor receiver that receives data from those temperature sensors. This receiver has a 3G / 4G connection directly to the server



Advantages of smarTrans solution

1. Monitor multiple temperature points in cargo compartment;
2. Temperature sensor is high accuracy and certified by 3rd-party;
3. Realtime monitoring during transportation;
4. Immediate notification received when Temperature is out of range;
5. Easy of use software on Web or Mobile;

Benefits of smarTrans

smarTrans Solution helps Trucking companies quickly deploy a reliable & efficient solution to provide the best services and meet the freight transportation needs of customers.

In addition, this solution allows the upgrade to monitor additional vehicle metrics such as:

1. Door open detection wireless sensor;
2. Fuel consumption monitoring;
3. Idling monitoring;


4. Automatic Driver identification;
5. Driver behavior report: risky driving, high acceleration...

Related products used in smarTrans solution

- Temperature Wireless Sensor: https://www.daviteq.com/en/?prd=wireless-sensors-actuators_WS433-M12FATE_wireless-ambient-temperature-sensor
- Wireless Sensor Reveiver with 3G/4G: https://www.daviteq.com/en/?prd=iot-products-2_STHC_smart-iot-gateway-iconnector
- Fuel Level Sensor: https://www.daviteq.com/en/?prd=measurement-controls_CAP10_fuel-level-sensors-forvehicles
- Door open detection Sensor: https://www.daviteq.com/en/?prd=wireless-sensors-actuators_WS433-DI_wirelessensor-digital-inputs

Contact us for Consultant and Pricing

Documents / Resources

	<p>daviteq IoT Solutions for Smart Transportation [pdf] User Guide IoT Solutions for Smart Transportation, Solutions for Smart Transportation, Smart Transportation , Transportation</p>
---	--

References

- [daviteq.com/en/manuals/uploads/images/gallery/2021-01/0u5uRtQpcZPIdy7u-COLD-CHAIN-TRANSPORTATION-01.png](https://www.daviteq.com/en/manuals/uploads/images/gallery/2021-01/0u5uRtQpcZPIdy7u-COLD-CHAIN-TRANSPORTATION-01.png)
- [daviteq.com/en/manuals/uploads/images/gallery/2021-01/IDW5CGxggLbYrQ5y-COLD-CHAIN-TRANSPORTATION-02.png](https://www.daviteq.com/en/manuals/uploads/images/gallery/2021-01/IDW5CGxggLbYrQ5y-COLD-CHAIN-TRANSPORTATION-02.png)
- [Smart IoT Gateway - iConnector STHC | DAVITEQ](#)
- [Smart IoT Gateway - iConnector STHC | DAVITEQ](#)
- [Fuel level sensors for Vehicles CAP10 | DAVITEQ](#)
- [Fuel level sensors for Vehicles CAP10 | DAVITEQ](#)
- [Wireless sensor Digital Inputs WS433-DI | DAVITEQ](#)
- [| DAVITEQ](#)
- [Wireless Ambient Temperature Sensor WS433-M12F-ATE | DAVITEQ](#)
- [Contact : Daviteq is a leading company in developing and manufacturing Wireless Sensors and IoT Solutions.](#)
- [User Manual](#)

